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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|----------------------------------|-----------------------------|------------------------|---------------------|------------------|--|
| 10/550,385 | 02/23/2007 | Michael Sendtner | 7003/44 | 1302 | |
| 27774 MAYER & WII | 7590 03/04/200 LLIAMS PC | 8 | EXAMINER | | |
| 251 NORTH A | VENUE WEST | MACFARLANE, STACEY NEE | | | |
| 2ND FLOOR WESTFIELD, NJ 07090 | | | ART UNIT | PAPER NUMBER | |
| | | | 1649 | | |
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| | | | MAIL DATE | DELIVERY MODE | |
| | | | 03/04/2008 | PAPER | |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | | | |
|--|--|-------------------------------|------|--|--|--|
| | 10/550,385 | SENDTNER ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | STACEY MACFARLANE | 1649 | | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on | | | | | | |
| | · · · · · · · · · · · · · · · · · · · | | | | | |
| 3) Since this application is in condition for allowan | ce except for formal matters, pro | secution as to the merits i | is | | | |
| closed in accordance with the practice under E | x parte Quayle, 1935 C.D. 11, 45 | 3 O.G. 213. | | | | |
| Disposition of Claims | | | | | | |
| 4)⊠ Claim(s) <u>1-11</u> is/are pending in the application. | | | | | | |
| 4a) Of the above claim(s) is/are withdraw | n from consideration. | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6) Claim(s) is/are rejected. | | | | | | |
| 7) Claim(s) is/are objected to. | | | | | | |
| 8) Claim(s) <u>1-11</u> are subject to restriction and/or e | lection requirement. | | | | | |
| , <u> </u> | | | | | | |
| Application Papers | | | | | | |
| 9)☐ The specification is objected to by the Examiner. | | | | | | |
| 10)☐ The drawing(s) filed on is/are: a)☐ acce | epted or b)⊡ objected to by the E | Examiner. | | | | |
| Applicant may not request that any objection to the o | drawing(s) be held in abeyance. See | : 37 CFR 1.85(a). | | | | |
| Replacement drawing sheet(s) including the correcti | on is required if the drawing(s) is obj | ected to. See 37 CFR 1.121(| (d). | | | |
| 11)☐ The oath or declaration is objected to by the Ex | aminer. Note the attached Office | Action or form PTO-152. | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of | s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)). | on No In this National Stage | | | | |
| Attachment(s) 1) ☑ Notice of References Cited (PTO-892) | 4) ☐ Interview Summary | (PTO-413) | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Da | te | | | | |
| 3) Information Disclosure Statement(s) (PTO/SB/08) | 5) Notice of Informal Page 6) Other: | atent Application | | | | |
| Paper No(s)/Mail Date | o, 🗀 Other | | | | | |

DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-9, drawn to a method for testing active substances and an apparatus designed to carry out the method.

Group II, claim(s) 10, drawn to an active substance obtainable by the method, wherein said active substance increases in a cell the amount of ribonucleic proteins, SMN, or beta-actin mRNA.

Group III, claim(s) 11, drawn to the use of an active substance for preparing a pharmaceutical composition.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the single general inventive concept that permeates the groups is screening for and subsequent isolation of an active substance that increases in a cell the amount of ribonucleic proteins, SMN, or beta-actin mRNA. The expression "special technical feature" is defined in Rule 13.2 as meaning those technical features that define a contribution which each of the inventions makes over the prior art. Whether a particular feature makes a contribution over the prior art, is considered with respect to novelty and inventive step. In the instant

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application, the active substance that increases beta-actin mRNA in a cell does not make a contribution over the prior art. The following reference teaches isolation of suramin, pharmaceutical compositions thereof, and screening methods for testing an the effects of suramin on the mRNA levels of beta-actin of nerve cells (Fantini et al. *International Journal of Cancer*, 45:554-561, 1990). The prior art recites a common technical feature of Groups I-III, thus, there is no special technical feature over the prior art and the application lacks Unity of Invention under PCT Rule 13.1.

Species Election

2. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1. The species are as follows:

(Claim 1) The structurally distinct molecules comprising β-actin, SMN or hnRNP.

Applicant is required, in reply to this action, to elect a single species, <u>or</u> specific combination thereof, to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include

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all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner:

Currently, there are no generic claims. Applicant must elect the method of Claim 1 comprising measuring levels of any one of β -actin, SMN or hnRNP alone, or a specific combination thereof (i.e. β -actin and SMN; β -actin and hnRNP; or all three together).

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack a special technical feature such as a common structural property which distinguishes them as a group from structurally related compounds of the prior art, or which provides them with a common utility that is lacking from those proteins or nucleic acids within the prior art. The mRNA nucleic acid molecules that encode for each of β -actin, SMN or hnRNP are structurally distinct polynucleotide molecules and there is nothing of record to indicate a shared structural property or common utility that unifies these species as a group. Likewise, the proteins of β -actin, SMN or hnRNP are structurally distinct polypeptides, and there is no evidence of record that the proteins are linked in structure or functional utility so as to demonstrate, as a group, a special technical feature over the prior art.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a invention to be examined even though the requirement

may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to STACEY MACFARLANE whose telephone number is (571)270-3057. The examiner can normally be reached on M,W and ALT. F 6 am to 3 pm, T & R 5:30 am - 4 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Stucker can be reached on (571) 272-0911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Stacey MacFarlane Examiner Art Unit 1649

/SNM/ /Olga N. Chernyshev, Ph.D./ Primary Examiner, Art Unit 1649